

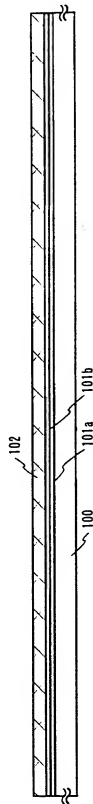
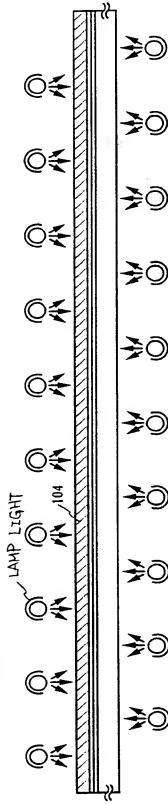
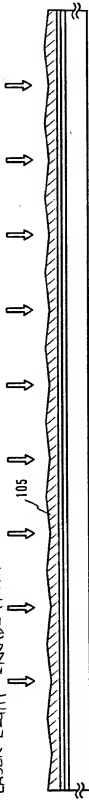
FIG. 1A
FORMATION OF AMORPHOUS SEMICONDUCTOR FILMFIG. 1B
FORMATION OF CATALYTIC ELEMENT CONTAINING LAYERFIG. 1C
HEAT TREATMENT (CRYSTALLIZATION OF SEMICONDUCTOR FILM)FIG. 1D
LASER LIGHT IRRADIATION

FIG. 2A
FORMATION OF BARRIER LAYER AND SEMICONDUCTOR FILM CONTAINING RARE GAS ELEMENT

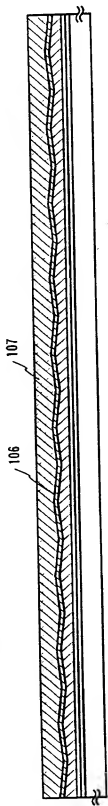


FIG. 2B
HEAT TREATMENT (GETTERING)

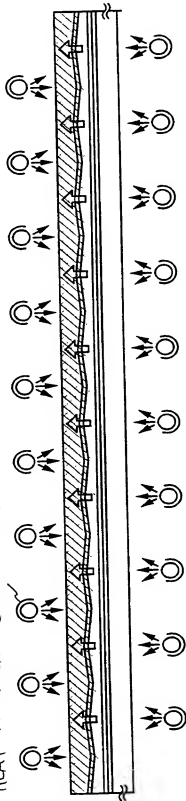
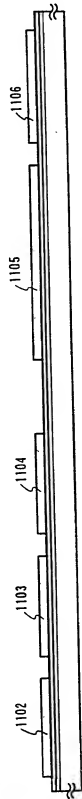


FIG. 2C
REMOVAL OF BARRIER LAYER AND SEMICONDUCTOR FILM CONTAINING RARE GAS ELEMENT



FIG. 2D
FORMATION OF ACTIVE LAYER



FORMATION OF SEMICONDUCTOR LAYER / FORMATION OF INSULATING FILM /
FORMATION OF FIRST CONDUCTIVE FILM AND SECOND CONDUCTIVE FILM

FIG. 3A

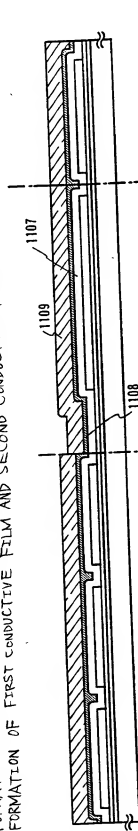


FIG. 3B

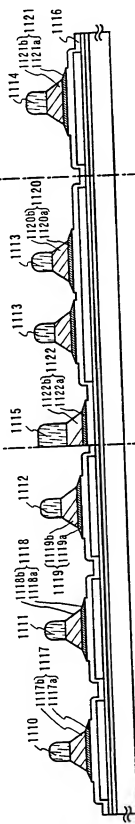


FIG. 3C

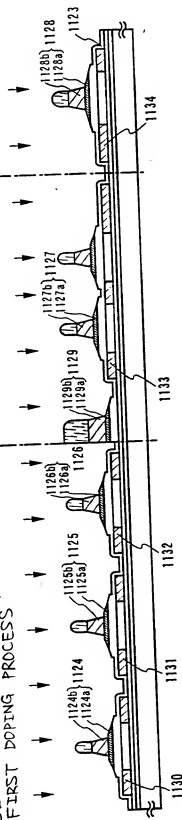


FIG. 4A SECOND DOPING PROCESS

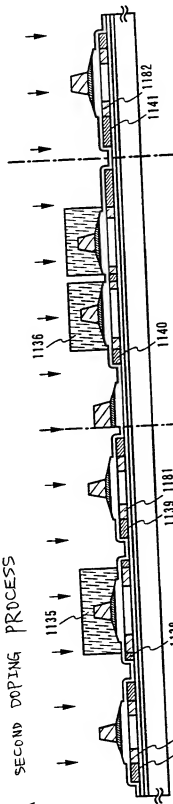


FIG. 4B THIRD DOPING PROCESS

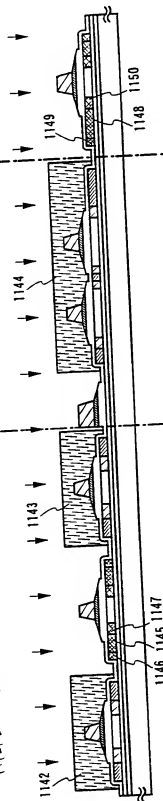
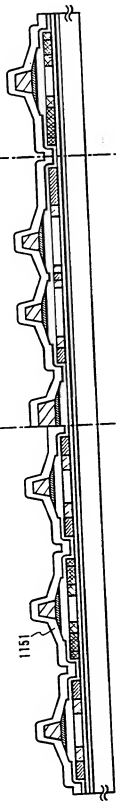


FIG. 4C ACTIVATION/HYDROGENATION



FORMATION OF INTERLAYER INSULATING FILM/
FORMATION OF PIXEL ELECTRODE AND WIRING

FIG. 5

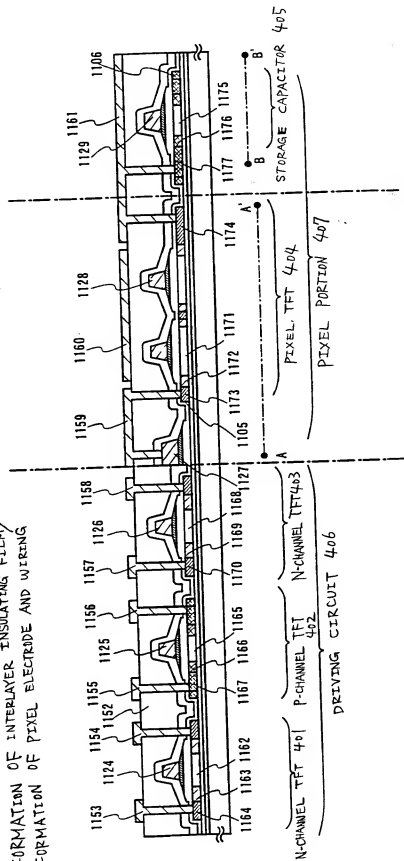
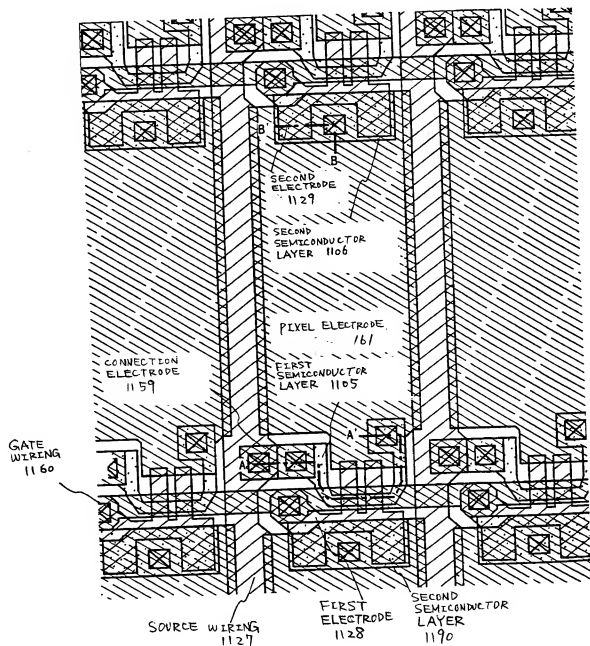


FIG. 6



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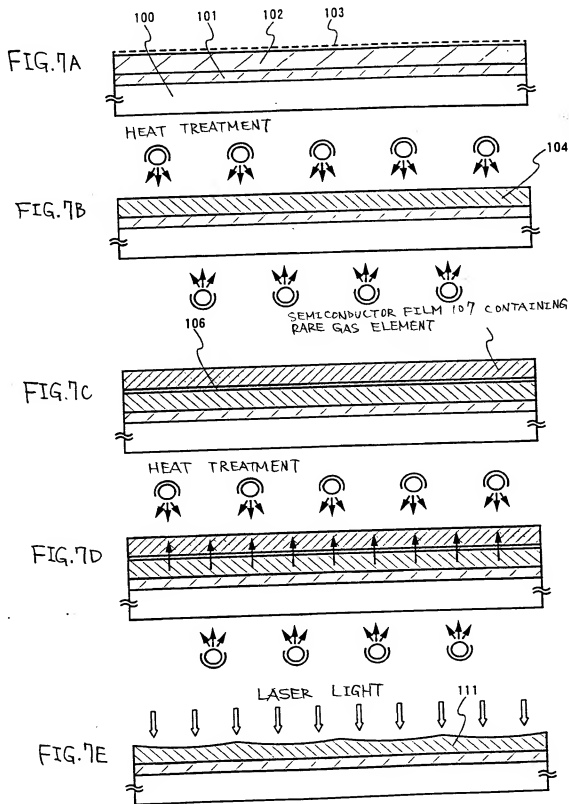


FIG. 8A

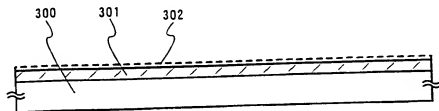


FIG. 8B

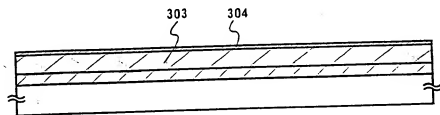


FIG. 8C

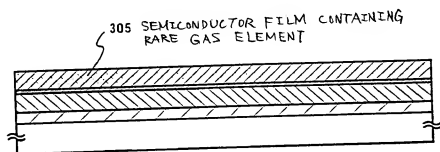


FIG. 8D

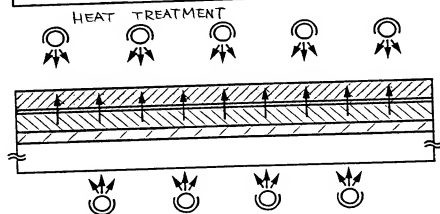
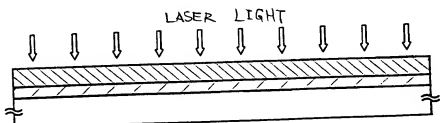


FIG. 8E



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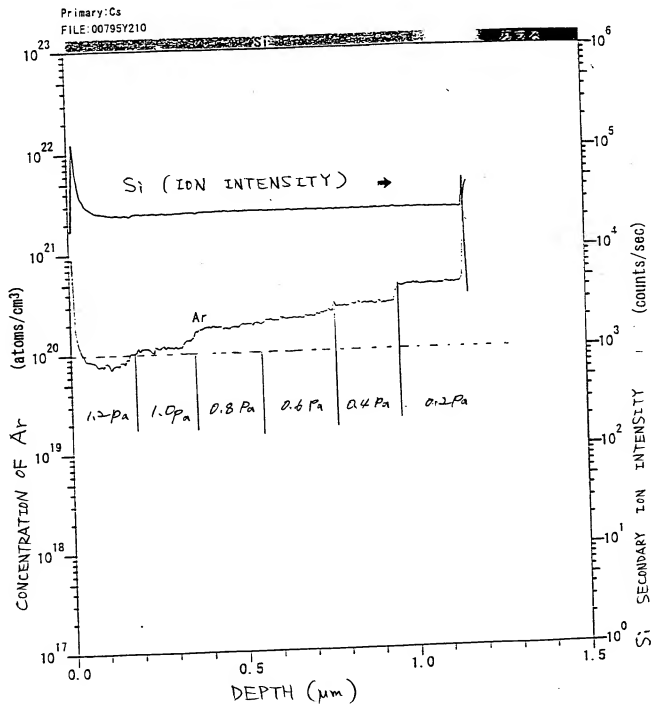
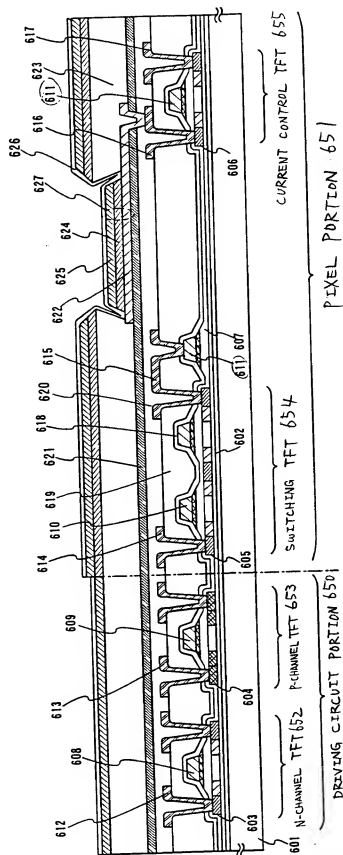
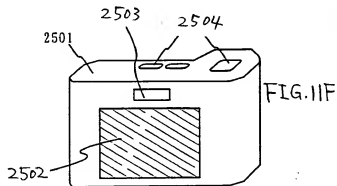
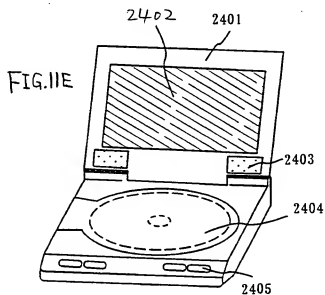
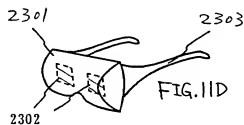
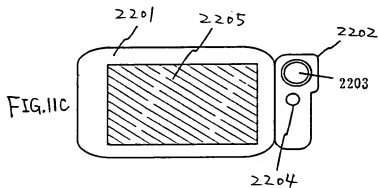
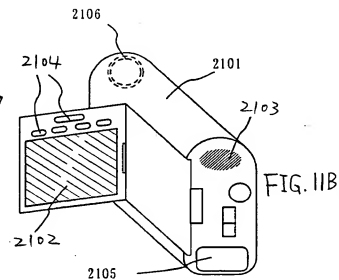
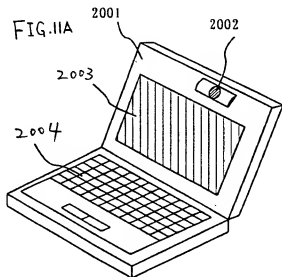


FIG. 9





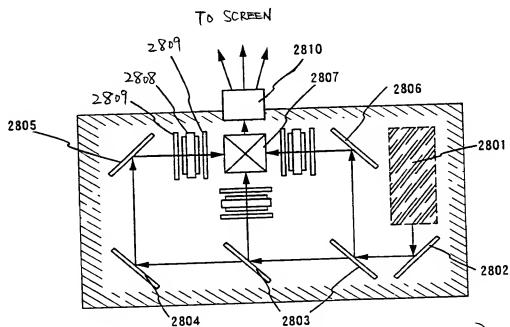
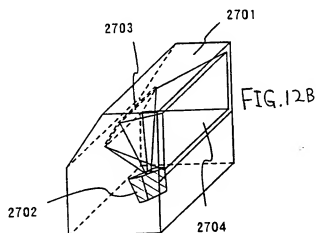
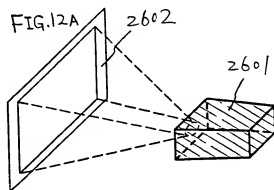


FIG. 12C PROJECTION APPARATUS (THREE PLATES TYPE)

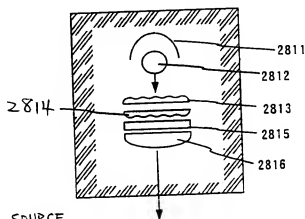


FIG. 12D LIGHT SOURCE OPTICAL SYSTEM

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FIG. 13A

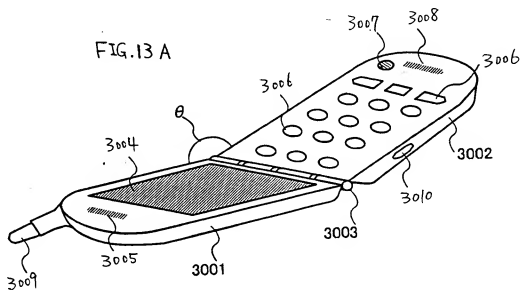


FIG. 13B

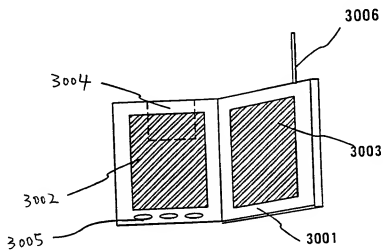


FIG. 13C

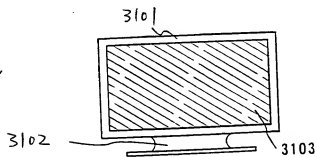


FIG. 14A

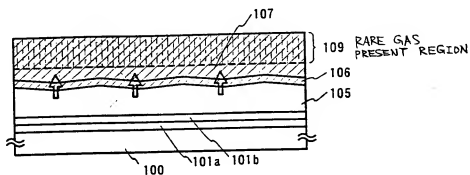


FIG. 14B

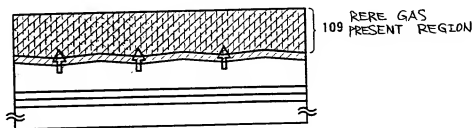


FIG. 14C

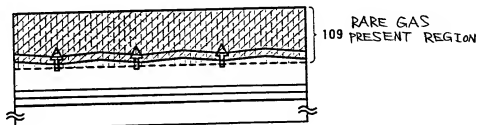


FIG.15A FORMATION OF GATE WIRING

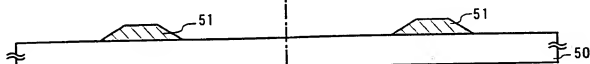


FIG.15B FORMATION OF GATE INSULATING FILM AND SEMICONDUCTOR FILM

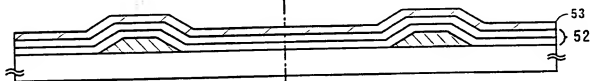


FIG.15C CRYSTALLIZATION

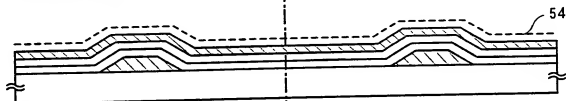


FIG.15D GETTERING

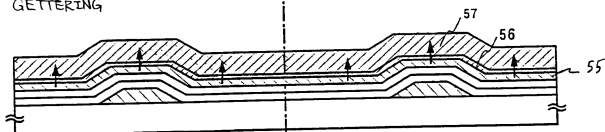


FIG.15E ADDITION OF IMPURITY ELEMENT



N-CHANNEL TFT

P-CHANNEL TFT

FIG.16A ACTIVATION

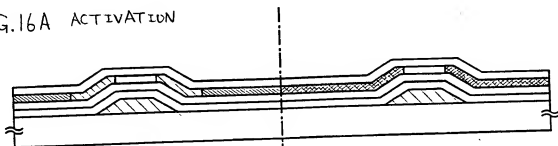


FIG.16B

FORMATION OF INTERLAYER
INSULATING FILM

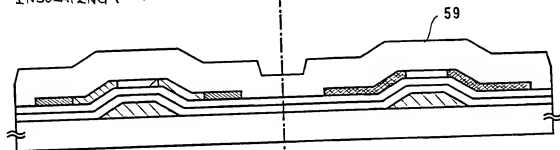
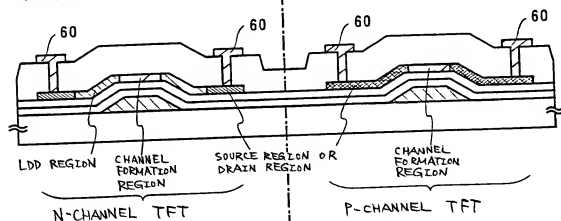
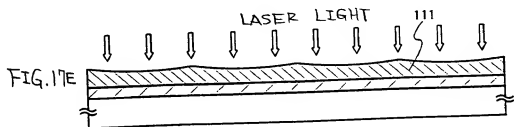
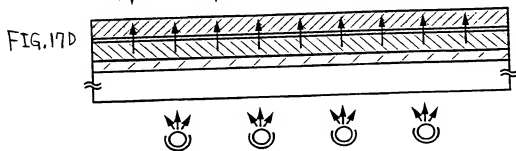
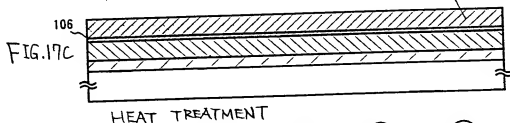
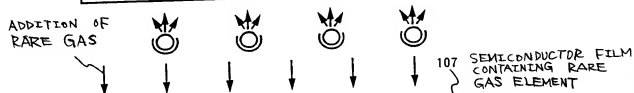
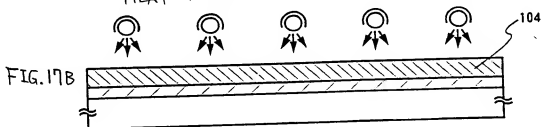
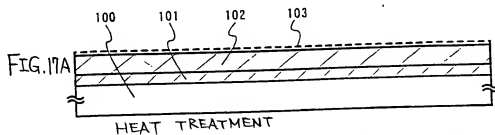


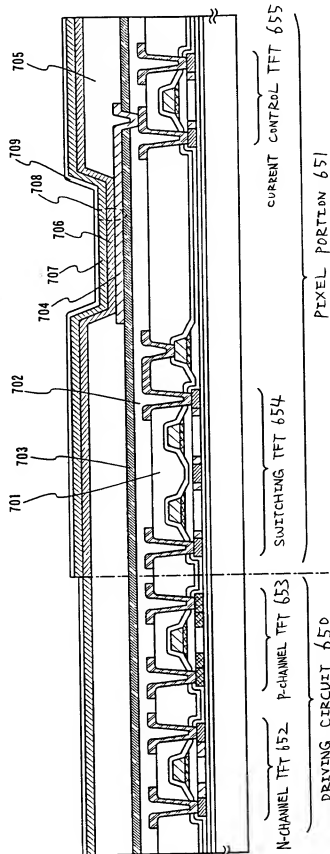
FIG.16C

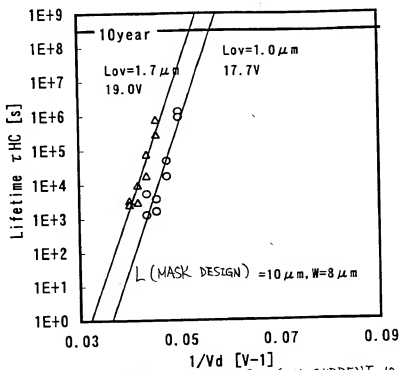
FORMATION OF SOURCE WIRING
AND DRAIN WIRING



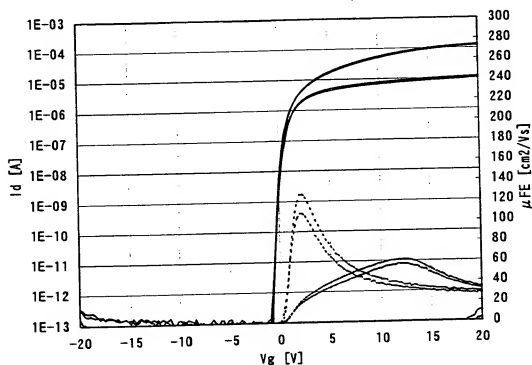
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ESTIMATED GUARANTEED VOLTAGE (ON CURRENT 10 % DEGRADATION)
DEPENDENCE ON LENGTH OF L_{ov} ($L/W = 10/8 \mu m$)



STATIC CHARACTERISTIC OF PIXEL TFT ($L/W = 4.5 \times 2/3 \mu m$)